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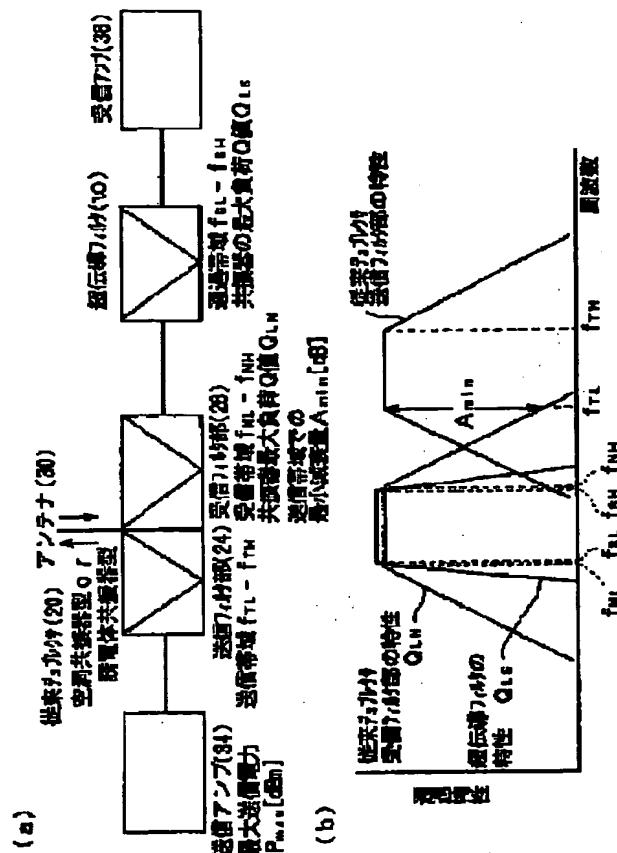
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TITLE : DUPLEXER USING  
 HIGH-TEMPERATURE  
 SUPERCONDUCTING FILTER



ABSTRACT : PROBLEM TO BE SOLVED: To provide a duplexer, using a high temperature superconducting filter that is applicable to a base station in mobile communication.

SOLUTION: This high-temperature superconducting filter used for the duplexer is configured by connecting a high-temperature superconducting filter 10 with a maximum load  $Q$  of a resonator and a specific pass band to the post-stage of a reception filter section 26 of the duplexer provided with a reception filter section 26 and a transmission filter section 24, configured by a cavity resonator or a dielectric resonator, or by inserting a circulator 22 between a reception filter 10, consisting of a high-temperature superconducting film filter and a transmission filter 24 consisting of a dielectric resonator filter or a cavity resonator, where the pass band of the circular 22 is broader than those of the above two filters.

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